

## Refine Search

Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

### Search Results -

Terms	Documents
L14 and ((arriv\$ near2 probab\$) same ((limit\$ or threshold\$) with (time or duration)))	5

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L15

Refine Search

Recall Text

Clear

Interrupt

### Search History

DATE: Monday, December 11, 2006   [Purge Queries](#)   [Printable Copy](#)   [Create Case](#)

<u>Set</u> <u>Name</u> <u>Query</u> side by side	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR</i>		
<u>L15</u> L14 and ((arriv\$ near2 probab\$) same ((limit\$ or threshold\$) with (time or duration)))	5	<u>L15</u>
<u>L14</u> L11 or L12 or L13 <i>DB=PGPB,USPT; THES=ASSIGNEE; PLUR=YES; OP=OR</i>	35	<u>L14</u>
<u>L13</u> (6059064   6493650   5539399   4361202   6125311   6320515   5251161   5801943   5892346   5823280   6418371   20020082767   5778326   5359308   6278965   5426589   5941328   5798949   20020077742   6034492   6430615   5832396   5815824   5929595   4179739   5627752   5270708)![PN]	27	<u>L13</u>
<u>L12</u> ("20020082767"   "20020077742"   "6532414"   "6662141"   "6381522")[PN] ("20020082767"   "20020077742"   "6542808"   "6532414"   "6662141"	5	<u>L12</u>

<u>L11</u>	"6381522")[URPN]	5	<u>L11</u>
	DB=PGPB,USPT,USOC,EPAB,JPAB,DWPI,TDBD; THES=ASSIGNEE; PLUR=YES; OP=OR		
<u>L10</u>	L3 and ((arriv\$ near2 probab\$) same ((limit\$ or threshold\$) with (time or duration)))	6	<u>L10</u>
<u>L9</u>	L6 and ((arriv\$ near2 probab\$) same (limit\$ or threshold\$) with (distance or length))	0	<u>L9</u>
<u>L8</u>	L6 and L5	24	<u>L8</u>
<u>L7</u>	L6 and ((limit\$ or threshold\$) with (distance or length))	11	<u>L7</u>
<u>L6</u>	L3 and ((limit\$ or threshold\$) with (time or duration))	24	<u>L6</u>
<u>L5</u>	L3 and ((limit\$ or threshold\$) with (time or duration or distance))	24	<u>L5</u>
<u>L4</u>	L3 and ((limit\$ or threshold\$) with distance)	7	<u>L4</u>
<u>L3</u>	L1 or L2	57	<u>L3</u>
<u>L2</u>	vehicle and (speed\$ or velocity) and (arriv\$ near2 probab\$) and @ad<=20030121	56	<u>L2</u>
<u>L1</u>	vehicle and (speed\$ or velocity) and (arriv\$ near2 probab\$) and @pd<=20030121	40	<u>L1</u>

END OF SEARCH HISTORY

## Hit List

First Hit Your wildcard search against 10000 terms has yielded the results below.

***Your result set for the last L# is incomplete.***

The probable cause is use of unlimited truncation. Revise your search strategy to use limited truncation.

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**Search Results - Record(s) 1 through 5 of 5 returned.**

☐ 1. Document ID: US 20020082767 A1

L15: Entry 1 of 5

File: PGPB

Jun 27, 2002

PGPUB-DOCUMENT-NUMBER: 20020082767

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020082767 A1

TITLE: Method and system for mapping traffic congestion

PUBLICATION-DATE: June 27, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mintz, Josef	Petach Tikva		IL

US-CL-CURRENT: 701/117; 340/934

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw D
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☐ 2. Document ID: US 20020077742 A1

L15: Entry 2 of 5

File: PGPB

Jun 20, 2002

PGPUB-DOCUMENT-NUMBER: 20020077742

PGPUB-FILING-TYPE: new

DOCUMENT-IDENTIFIER: US 20020077742 A1

TITLE: Method and system for mapping traffic congestion

PUBLICATION-DATE: June 20, 2002

INVENTOR-INFORMATION:

NAME	CITY	STATE	COUNTRY
Mintz, Josef	Petach Tikva		IL

US-CL-CURRENT: 701/117; 340/934

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 3. Document ID: US 6662141 B2

L15: Entry 3 of 5

File: USPT

Dec 9, 2003

US-PAT-NO: 6662141

DOCUMENT-IDENTIFIER: US 6662141 B2

TITLE: Traffic safety prediction model

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 4. Document ID: US 6532414 B2

L15: Entry 4 of 5

File: USPT

Mar 11, 2003

US-PAT-NO: 6532414

DOCUMENT-IDENTIFIER: US 6532414 B2

TITLE: Method and system for mapping traffic congestion

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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☐ 5. Document ID: US 6381522 B1

L15: Entry 5 of 5

File: USPT

Apr 30, 2002

US-PAT-NO: 6381522

DOCUMENT-IDENTIFIER: US 6381522 B1

TITLE: Method for controlling a hybrid vehicle

Full	Title	Citation	Front	Review	Classification	Date	Reference	Sequences	Attachments	Claims	KWIC	Draw De
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Clear

Generate Collection

Print

Fwd Refs

Bkwd Refs

Generate OACS

Terms

Documents

L14 and ((arriv\$ near2 probab\$) same ((limit\$  
or threshold\$) with (time or duration)))

5

Display Format: 

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L15: Entry 3 of 5

File: USPT

Dec 9, 2003

US-PAT-NO: 6662141

DOCUMENT-IDENTIFIER: US 6662141 B2

TITLE: Traffic safety prediction model

DATE-ISSUED: December 9, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Kaub; Alan R.	Amissville	VA	20106	

APPL-NO: 09/938616 [PALM]

DATE FILED: August 27, 2001

## PARENT-CASE:

CROSS REFERENCE TO RELATED APPLICATIONS This application is a continuation-in-part of application Ser. No. 09/139,636 filed on Aug. 25, 1998, which is a continuation-in-part of application Ser. No. 08/689,651 filed on Aug. 9, 1996, now U.S. Pat. No. 5,798,949, which is a continuation-in-part of application Ser. No. 08/372,336 filed on Jan. 13, 1995, now abandoned.

INT-CL-ISSUED: [07] G08G 1/095

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPS	<u>G08 G 1/01</u>	20060101
CIPS	<u>G08 G 1/16</u>	20060101

US-CL-ISSUED: 702/181; 340/907

US-CL-CURRENT: 702/181; 340/907

FIELD-OF-CLASSIFICATION-SEARCH: 702/181, 702/33, 702/36, 702/40, 702/142-143, 702/156, 702/159, 702/176-180, 702/182-183, 702/187-188, 340/902-904, 340/907, 340/916, 340/963, 701/117, 701/301

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

☐ 4179739

December 1979

Virnot

701/117

<input type="checkbox"/>	<u>5251161</u>	October 1993	Gioutsos et al.	703/2
<input type="checkbox"/>	<u>5270708</u>	December 1993	Kamishima	340/995
<input type="checkbox"/>	<u>5798949</u>	August 1998	Kaub	703/6
<input type="checkbox"/>	<u>5801943</u>	September 1998	Nasburg	701/117
<input type="checkbox"/>	<u>6125311</u>	September 2000	Lo	701/29
<input type="checkbox"/>	<u>6278965</u>	August 2001	Glass et al.	703/22
<input type="checkbox"/>	<u>6320515</u>	November 2001	Olsson	340/905
<input type="checkbox"/>	<u>6418371</u>	July 2002	Arnold	701/117
<input type="checkbox"/>	<u>6430615</u>	August 2002	Hellerstein et al.	709/224
<input type="checkbox"/>	<u>6493650</u>	December 2002	Rodgers et al.	702/150

## FOREIGN PATENT DOCUMENTS

FOREIGN-PAT-NO	PUBN-DATE	COUNTRY	CLASS
658-375	April 1979	RU	

## OTHER PUBLICATIONS

Jason C. Yu, Establishing Relationship of Level of Service and Highway Safety, Oct. 1972.

Kotz et al., Educated Guessing, 1983.

Petzold et al., Potential for Geographic Information Systems in Transportation Planning and Highway Infrastructure Management, 1990.

Saito et al., Dilemma and Option Zones, the Problem of Countermeasures, May, 1990.

Dickinson et al., An Evaluation of Microwave vehicle Detection at Traffic Signal Controlled Intersections, May 1990, pp. 153-157.

Favilla et al., Fuzzy Traffic Control: Adaptive Strategies, Mar., 1993, pp. 506-511.

Harris, The Development and Deployment of IVHS in North America, Aug., 1994, pp. 3-10.

Bielefeldt et al., Motion--A New On-Line Traffic Signal Network Control System, Apr., 1994, pp. 55-59.

Hoyer et al., Fuzzy Control of Traffic Lights, Jun., 1994.

Lee et al., Development and Assessment of a Traffic Adaptive Control System in Korea, Aug., 1994.

ART-UNIT: 2857

PRIMARY-EXAMINER: Hoff; Marc S.

ASSISTANT-EXAMINER: Baran; Mary Catherine

ATTY-AGENT-FIRM: Litman; Richard C.

## ABSTRACT:

A Traffic Safety prediction Computer Program (TRAF-SAFE) and sub-models for predicting the number of accidents, injuries and fatalities expected annually at an intersection or series of intersections based on the particular intersection and roadway features. A finite analysis approach to an intersection is used to break

the intersection into discrete elements such as lanes, turnbays, stop control signals, and traffic flow rates. The total annual expected accidents can then be calculated as a summation of the interrelation of the individual elements. A Poisson's distribution is used to statistically estimate the likelihood of the individual vehicles occurring within a discrete time frame being investigated. The conflict probabilities between various permutations of the traffic flow is then calculated and summed to determine the number of conflicts for the intersection or roadway. The conflicts are then converted to expected accidents, and the accident level is converted to injury involvements and Safety Levels of Service for the intersection and roadway.

13 Claims, 34 Drawing figures

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L15: Entry 4 of 5

File: USPT

Mar 11, 2003

US-PAT-NO: 6532414

DOCUMENT-IDENTIFIER: US 6532414 B2

TITLE: Method and system for mapping traffic congestion

DATE-ISSUED: March 11, 2003

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Mintz; Josef	Petach Tikva		49542	IL

APPL-NO: 09/945257 [PALM]

DATE FILED: August 31, 2001

## PARENT-CASE:

This application is a continuation of PCT/IB00/00239 filed Mar. 8, 2000.

## FOREIGN-APPL-PRIORITY-DATA:

COUNTRY	APPL-NO	APPL-DATE
IL	128879	March 8, 1999
IL	131700	September 1, 1999

INT-CL-ISSUED: [07] G06G 7/76

## INT-CL-CURRENT:

TYPE	IPC	DATE
CIPP	G08 G 1/01	20060101

US-CL-ISSUED: 701/117; 701/118, 340/934

US-CL-CURRENT: 701/117; 340/934, 701/118

FIELD-OF-CLASSIFICATION-SEARCH: 701/117, 701/118, 701/119, 701/23, 701/25, 701/200, 348/61, 348/149, 340/907, 340/910, 340/915, 340/919, 340/934

See application file for complete search history.

## PRIOR-ART-DISCLOSED:

## U.S. PATENT DOCUMENTS

[Search Selected](#)[Search ALL](#)[Clear](#)

PAT-NO

ISSUE-DATE

PATENTEE-NAME

US-CL

☐ 2002/0077742

June 2002

Mintz

701/117



☐ 2002/0082767

June 2002

Mintz

701/177

ART-UNIT: 3661

PRIMARY-EXAMINER: Beaulieu; Yonel

ATTY-AGENT-FIRM: Norris McLaughlin &amp; Marcus, P.A.

## ABSTRACT:

System and method for mapping parameters of traffic congestion, for example, a road congestion, relative to a focus is disclosed. Mapping of the road congestion may include determination of an average length of the road congestion over a time interval, motion rate in the road congestion and arrival rate to the road congestion. These parameters, in turn, may be used to determine an expected delay in traveling throughout the road congestion as well as trends, i.e., changes with time, in the road congestion. The mapping is performed relative to the mapping focus, typically the front end of a road congestion. The mapping system may construct snapshots of mapping samples received from a small percentage of predestinated probes, e.g., a small percentage of vehicles equipped with an appropriate receiver and transmitter. The mapping samples are preferably received in response to predefined broadcast queries sent from the mapping system. The determination of the average length of a road congestion may be based on a direct approach, obviating the need to estimate discrete lengths of the road congestion, in dynamic conditions that may include variations in the arrival rate of vehicles to the road congestion and the departure rate of vehicles from the congestion over time.

50 Claims, 21 Drawing figures

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